



Recombinant Human GDF-3

20150227BB



FOR RESEARCH ONLY! NOT FOR HUMAN USE!

Cat.-no.:	100-179
Size:	20 µg
Lot. No.:	According to product label

Scientific Background

Gene-ID (NCBI):	9573
Synonyms:	GDF3; KFS3; MCOP7; MCOPCB6

GDF-3 is a member of the TGF- β superfamily of growth and differentiation factors, and is highly homologous to GDF-9. Unlike most TGF- β family members, GDF-3 and GDF-9 are not disulfide-linked dimers. GDF-3 is expressed in adult bone marrow, spleen, thymus, and adipose tissue. The expression of GDF-3 is upregulated in high-fat-fed wild-type FABP4/aP2 null mice and was associated with obesity, but not with the related hyperglycemia/hyperinsulinemia which characterizes Type 2 diabetes. Recombinant human GDF-3 is a 26.0 kDa non-disulfide-linked homodimer containing two 114 amino acid polypeptide chains.

Sequence

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AAIPVPKLSC KNLCHRHQLF INFRDLGWHK WIIAPKGFMA  
NYCHGECPEF LTISLNSSNY AFMQALMHAV DPEIQAVCI  
PTKLSPI SML YQDNNDNVIL RHYEDMVVDE CGCG
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Database References

Protein RefSeq:	NP_065685.1
Uniprot ID:	Q9NR23
mRNA RefSeq:	NM_020634

Product Specifications

Expressed in	E. coli
Purity	> 98% by SDS-PAGE & HPLC analyses
Endotoxin level	< 0.1 ng /µg of protein (<1EU/µg).
Formulation	lyophilized
Length (aa):	114
MW:	26 kDa

Biological Activity: Determined by its ability to inhibit induced alkaline phosphatase production by ATDC-5 chondrogenic cells. The ED50 for this effect is 100-150 ng/ml.



AVOID REPEATED FREEZE AND THAW CYCLES!